This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information.

Interagency Report Control No
0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

1. REGISTRATION NO. 93-F-0006

CUSTOMER NO. 1200

FORM APPROVED
OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY *(Name and Address, as registered with USDA, include Zip Code)*

NASA
ANIMAL CARE FACILITY
MAIL STOP 261-1
MOFFETT FIELD, CA 94035
(415) 604-5000

3. REPORTING FACILIT (b)(2)High, (b)(7)(F) urposes. Attach additional sheets if necessary.)

See Attached Listing

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY *(Attach additional sheets if necessary or use APHIS FORM 7023A)*

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic,analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. *(An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)*	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs					0
5. Cats					0
6. Guinea Pigs	20	112	65		197
7. Hamsters					0
8. Rabbits		38	389		427
9. Non-Human Primates		17	10	2	29
10. Sheep					0
11. Pigs		1	1		2
12. Other Farm Animals					0
					0
13. Other Animals					0
					0
					0
					0

ASSURANCE STATEMENTS

1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

2) Each principal investigator has considered alternatives to painful procedures.

3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). **A summary of all the exceptions is attached to this annual report.** In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

NOV 2 8 2007

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(b)(6),(b)(7)(c)

cutive Officer or Legally Responsible Institutional official)

at the above is true, correct, and complete (7 U.S.C. Section 2143)

(b)(6),(b)(7)(c)

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ADQUARTERS

Column E Explanation

1. Registration Number: 93-F-0006 Customer # 1200

2. Two (2) animals were used in this type of study.

3. Common marmosets were used in this type study.

4. Explain the procedure producing pain and/or distress.

   Animals were used as models for the human neuromuscular disease multiple sclerosis. Induction of the disease, known as experimental allergic encephalomyelitis, involves immunization with complete Freund's adjuvant, which can cause ulceration at the site of injection. The potential for pain and/or distress in these studies is due to the inflammatory response to the one time injection of complete Freund's adjuvant and possible distress related to the neuromuscular impairment that animals are expected to experience.

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results.

   The use of complete Freund's adjuvant is required to experimentally induce the disease model. Similar to multiple sclerosis in humans, the neuromuscular impairment in experimental allergic encephalitis is not considered to be painful; however, there may be distress associated with loss of motor function. Anesthetics, analgesics and tranquilizers are contra-indicated because (1) a number of these agents have immune modulating effects, and thus would interfere with induction of the disease state; (2) the use agents that alter the awareness and depresses the central nervous system would interfere with the behavioral and motor assays used to monitor the course of the disorder in the animals; and (3) these agents are not typically used in humans to treat multiple sclerosis.

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